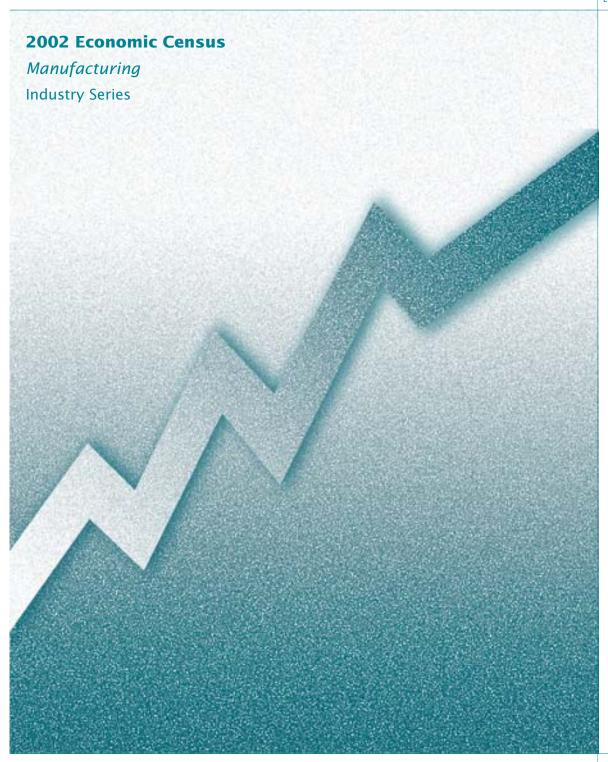
Fluid Power Pump and Motor Manufacturing: 2002

Issued December 2004

EC02-311-333996 (RV)





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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333996, Fluid power pump and motor											
manufacturing2002	139	171		565 368	8 455	17 106	311 866	1 288 766	1 168 389	2 493 589	70 368
2001 2000	N N	N N	13 610 15 934	542 658 634 297	9 131 10 870	18 011 22 725	295 753 370 888	1 322 403 1 541 764	1 241 065 1 571 689	2 575 451 3 077 416	78 564 110 033
1999	N	N	15 620	611 710	10 656	21 765	358 668	1 487 407	1 376 117	2 879 843	113 979
1998	N	N	17 189	672 415	11 880	25 015	397 437	1 625 557	1 423 212	3 008 751	143 708
1997	149	168	15 963	620 397	11 065	22 551	359 816	1 526 099	1 283 790	2 811 223	112 115

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establi	ishments ²	All em	ployees	Pr	oduction wor	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
333996, Fluid power pump and motor manufacturing												
United States. California Florida Illinois Kansas Michigan Minnesota Ohio Texas	- - 2 -	171 16 8 12 5 13 6 15 13 8	68638463625	12 908 704 363 1 788 696 874 325 1 437 171 684	565 368 34 413 12 199 73 534 26 053 44 362 14 498 64 173 5 791 29 148	8 455 417 261 1 344 569 523 192 919 116 304	17 106 645 548 2 577 1 155 941 375 1 859 225 661	311 866 14 865 6 505 49 430 18 840 21 397 6 744 35 921 3 168 10 745	1 288 766 87 689 28 585 137 080 109 159 67 260 30 071 109 588 14 388 31 235	1 168 389 55 222 23 051 226 759 52 820 73 799 33 230 137 581 10 950 24 132	2 493 589 145 108 51 361 380 759 162 400 141 243 64 346 252 922 25 427 57 951	70 368 '2 548 '781 '10 629 '3 083 '4 360 '607 '12 392 '234 '2 480

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Includes establishments with payroll at any time during the year.

Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333996, Fluid power pump and motor manufacturing	
Companies ¹	139
All establishments ² number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 100 employees or more number.	171 103 31 37
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	12 908 730 846 565 368 165 478
Production workers, average for year	8 455 8 539 8 528 8 388 8 362
Production worker hours	17 106 311 866
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	1 168 389 939 907 164 075 2 809 20 602 40 996
Quantity of electricity purchased for heat and power	361 598 -
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	2 493 589 2 075 546 171 708 246 335 199 473 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	92 2 388 496 2 075 546 312 950
Coverage ratiopercent	87
Value added	1 288 766
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	444 286 138 062 151 462 154 762
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	397 494 169 555 83 535 144 404
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'1 248 677 '70 368 '10 342 '60 026 '838 '3 721 '55 467 '65 821 '1 253 224
Depreciation charges during year	^r 106 015
Total rental payments \$1,000 Buildings and other structures \$1,000 Machinery and equipment \$1,000	14 926 7 693 7 233
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	213 837 94 18 427 5 709 4 504 2 336 3 978 6 164 2 166 11 769 8 994 134 288

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	rs		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333996, Fluid power pump and motor manufacturing											
All establishments Establishments with—	-	171	12 908	565 368	8 455	17 106	311 866	1 288 766	1 168 389	2 493 589	70 368
1 to 4 employees	8 9 5	51 25 27	119 165 342	5 036 7 355 14 395	81 115 207	146 223 424	2 702 3 982 7 074	11 628 16 022 29 210	11 162 14 864 29 472	22 826 30 936 60 253	'335 '474 '2 565
20 to 49 employees	3	16 15	554 1 051	23 281 40 605	351 689	667 1 290	12 486 19 466	53 982 111 993	41 442 63 617	97 086 177 395	r3 791 r1 745
100 to 249 employees	-	20 13 4	3 515 4 842 2 320	154 496 210 985 109 215	2 323 3 396 1 293	4 444 7 152 2 760	87 892 126 901 51 363	345 566 451 276 269 089	259 589 510 205 238 038	610 414 980 732 513 947	'18 358 '32 929 10 171
1,000 to 2,499 employees	-	-	- - -				- -				-
Administrative records ⁴	9	82	409	17 572	285	556	10 057	39 161	37 177	76 336	r1 226

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
333996	Fluid power pump and motor manufacturing	171	12 908	565 368	8 455	17 106	311 866	1 288 766	1 168 389	2 493 589	'70 368
3339961 3339963	Nonaerospace type reciprocating fluid power pumps Nonaerospace type rotary and other	22	3 787	165 948	2 403	4 644	88 740	373 915	544 410	949 401	r26 823
3339965	fluid power pumps	19	2 932	117 646	2 021	4 023	64 934	278 954	176 732	456 432	r22 205
3339967	motors	8	1 304	52 520	918	2 007	36 326	124 184	87 401	211 074	r9 453
3339969	and motors	9	1 398	77 737	681	1 413	30 362	135 930	116 064	253 558	r4 169
3339969	Parts for fluid power pumps, motors, and hydrostatic transmissions	19	2 253	97 691	1 591	3 270	60 906	248 352	151 657	402 143	^r 6 165

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
333996	Fluid power pump and motor manufacturing	N N	X X	X X	2 388 496 2 606 309	
3339961	Nonaerospace type reciprocating fluid power pumps	N N	X	X	632 926 661 302	
33399611	Nonaerospace type reciprocating fluid power pumps	N	X	X	632 926	
3339961100	Nonaerospace type reciprocating fluid power pumps ¹	N 32 37	X X X	X X X	661 302 632 926 661 302	
3339963	Nonaerospace type rotary and other fluid power pumps	N N	X	X	492 249 501 080	
33399631	Nonaerospace type rotary and other fluid power pumps	N	X	X	492 249	
3339963100	Nonaerospace type rotary and other fluid power pumps¹	N 30 44	X X X	X X X	501 080 492 249 501 080	
3339965	Nonaerospace type fluid power motors	Ŋ	X	X	369 815	
33399651	Nonaerospace type fluid power motors	N N	X	X	541 994 369 815	
3339965100	Nonaerospace type fluid power motors ¹	N 29 33	X X X	X X X	541 994 369 815 541 994	
3339967	Aerospace type fluid power pumps and motors	N N	×	X	212 870	
33399671	Aerospace type fluid power pumps and motors	N	X	X	221 735 212 870	
3339967100	Aerospace type fluid power pumps and motors ¹	N 25 26	X X X	X X X	221 735 212 870 221 735	
3339969	Parts for fluid power pumps, motors, and hydrostatic transmissions	N N	×	×	509 978 502 056	
33399691	Parts for fluid power pumps, motors, and hydrostatic	• •				
	transmissions	N N	X X	X X	509 978 502 056	
3339969100	Parts for fluid power pumps, motors, and hydrostatic transmissions ¹	53 64	X	X	509 978 502 056	
333996W	Fluid power pump and motor manufacturing, nsk, total	Ŋ	X	X	170 658	
333996WY	Fluid power pump and motor manufacturing, nsk, total	N N	X	X	178 142 170 658	
333996WYWW	Fluid power pump and motor manufacturing, nsk, for nonadministrative-record establishments	N	X	X	178 142	
000000140//45.1	1997	N N	X X	X	99 122 107 215	
333996WYWY	Fluid power pump and motor manufacturing, nsk, for administrative-record establishments	N N	X X	X X	71 536 70 927	

¹For additional detail, see Current Industrial Report MA333N, Fluid Power Products.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3339961	Nonaerospace type reciprocating fluid power pumps	
	United States. 2002. 1997. Florida 2002. 1997. Wisconsin 1997. 1997.	632 926 661 302 8 575 3 588 17 519 9 062
3339963	Nonaerospace type rotary and other fluid power pumps	
	United States 2002 Florida 1997. Illinois 1997. Kansas 2002. Ohio 1997. 1997. 1997. 1997. 1997.	492 249 501 080 38 236 14 675 107 763 126 889 15 235 N 43 666 N
3339965	Nonaerospace type fluid power motors United States. 2002. Illinois. 2002. Ohio 1997 Ohio 1997	369 815 541 994 54 016 169 700 6 949 N
3339967	Aerospace type fluid power pumps and motors	
	United States. 2002. California 1997. Ohio 2002. 1997. 1997.	212 870 221 735 33 019 22 838 11 094 15 604
3339969	Parts for fluid power pumps, motors, and hydrostatic transmissions	
	United States. 2002 California 1997. Florida 1997. Michigan. 2002 Minnesota 1997. Ohio 1997. 1997. 1997. 1997. 1997. 1997. 1997. 1997. 1997.	509 978 502 056 50 256 24 961 21 947 2 275 10 204 5 407 N 15 317 33 065

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333996	Fluid power pump and motor manufacturing		
00900001	Total materials	X	939 907
33399603	Fluid power pumps purchased for incorporation into manufactured products	X	1 029 642 26 727
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X X X X X	76 252 64 411 76 790
33291901	Metal pipe, valves, and pipe fittings (excluding forgings)	×	13 358 19 794
33200075	Other fabricated metal products (excluding forgings)	, X	58 955 71 034
33210000	Forgings	X X X X X	26 865 N
33151001	Iron and steel castings (rough and semifinished)	X	61 430 104 552
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished)	X X X	47 923 25 666
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-		
	base alloy)	X	3 041 D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	X	23 129
33120016	Steel sheet and strip (including tinplate)	X X X X X	28 812 4 857
33121000	1997 Steel tubing	X	N D
	1997	X	7 294
33120061	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X	2 293 67 790
33131601	Aluminum and aluminum-base alloy extruded shapes (extruded rod, bar, pipe, tube, etc.)	X X X	7 974
33100047	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and		N
	fabricated metal products)	X	D D
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	V	D
	1997	ŝ	13 370
331000AA	Metal powders	X X X X	18 408 12 248
32410005	Lubricating and cutting oils	X	6 020 7 769
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	X	809 N
33531201	Electric motors and generators	, X	34 730 45 855
33299105	Ball bearings (mounted or unmounted)	X X X X X	9 531 8 997
33299103	Roller bearings (mounted or unmounted)	X	30 046 20 597
33361301	1997 Plain bearings and bushings	ŝ	5 110
33361200	Mechanical speed changers, gears, and industrial high-speed drives	X X X X X	19 227 9 566 11 411
33999103	Gaskets (all types), and packing and sealing devices	x	12 453 11 003
33351503	Cutting tools for machine tools		20 545 24 601
00970099	All other materials and components, parts, containers, and supplies	X X X X X	318 064
00971000	Materials, ingredients, containers, and supplies, nsk	XX	172 557 122 937
	1997	X	157 997

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.